

**Notice of Allowability**

Application No.

09/867,449

Examiner

Wai-Sing Louie

Applicant(s)

MIYOKAWA ET AL.

Art Unit

2814

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/22/03.
2. ☒ The allowed claim(s) is/are 1-7,9-14,16-27,29,31-55 and 57-62.
3. ☒ The drawings filed on 5/13/01 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                        | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____    |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>10/03</u> | 6 <input type="checkbox"/> Examiner's Amendment/Comment                    |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material     | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9 <input type="checkbox"/> Other _____                                     |

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**DETAILED ACTION**

***Allowable Subject Matter***

Claims 1-7, 9-14, 16-27, 29, 31-55, and 57-62 are allowed. The following is an examiner's statement of reasons for allowance:

The claimed invention is a laser diode module comprising:

- A laser diode;
- An optical system including an optical fiber and a lens portion, the optical system being configured to receive and transmit a beam emitted from the laser diode through the lens portion to the optical fiber along an optical axis;
- A base configured to support the laser diode and at least a portion of the optical system;
- A bottom plate configured to support the laser diode, and optical system, and the base, where the base includes a solid structural support member configured to prevent warping of the base, the structural support member being elongated along the base in a direction generally parallel to the optical axis, and where the base comprises a laser diode mounting member and a holder mounting member mounted to the laser diode mounting member, the laser diode mounting member supporting the laser diode and the holder mounting member supporting a portion of the optical system, the holder mounting member being made of a material having a thermal conductivity value lower than a thermal conductivity value of the laser diode mounting member.

Reference Janssen et al. (US 5,570,444) disclose an optical coupling device having a laser diode, an optical fiber, a lens, an optical fiber holder, a set of optical fiber holder mounting members, a laser diode-mounting member, and a bottom plate. However, Janssen et al. do not disclose a solid structure support member configured to prevent warping of the base.

Reference Yoshino (US 5,924,290) discloses an optoelectronic element module having a photodiode, a photodiode mounting member, an optical fiber, a lens, an optical fiber holder, a peltier unit, and a bottom plate. However, Yoshino does not disclose an optical fiber holder-mounting member and a solid structure support member configured to prevent warping of the base.

Therefore, the above references do not disclose the claimed invention of present application and claims 1-7, 9-14, 16-27, 29, 31-55, and 57-62 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

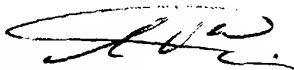
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (703) 305-0474. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Wsl

October 3, 2003.

A handwritten signature in black ink, appearing to be 'Wsl', is written above the typed name 'Wsl'.



LIST OF RELATED CASES

	<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
WSL	205469US8*	09/867,449	05/31/01	MIYOKAWA et al.
WSL	240683US8 CONT	10/622,703	07/21/03	MIYOKAWA et al.

11/14/03

\*Present Application; listed for information

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